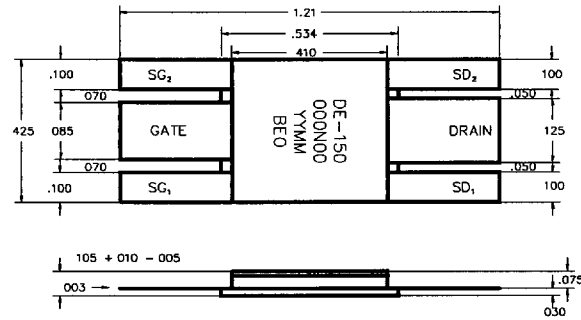


DE-SERIES FAST POWER MOSFETS



DE-150 SERIES

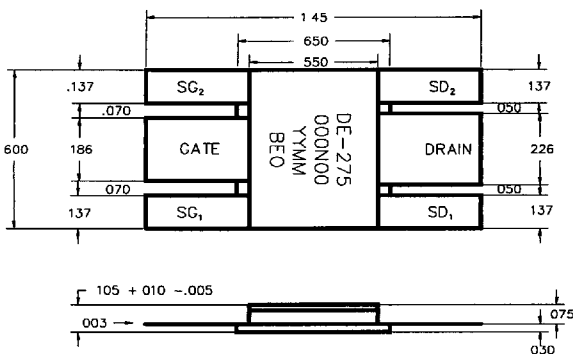


The DE-150 SERIES are the lowest power devices in the DE-SERIES family. However their speed and frequency are the highest. The upper operational frequency of the DE-150 SERIES is approximately 110MHz. The switching speed of the device family is on the order of 3-5ns 10%-90%, with peak currents greater than 70 amperes. Applications include:

- POWER RF AMPLIFIERS
- POWER RF GENERATORS
- LASER DIODE DRIVERS
- MICRO-CHANNEL PLATE GATING
- HIGH SPEED PULSE GENERATORS

DE-150	V _{DS} (V)	I _D (A)	I _{DM} (A)	g _{fs} (S)	R _{DS(ON)} (Ω)	T _R (ns)	C _{ISS} (pF)	C _{OSS} (pF)	C _{RSS} (pF)	R _{θJHS}	P _D (W)
501N04	500	4.5	36	4	1.5	5	600	50	5	1.25	80
201N09	200	9	72	5	.4	5	600	105	12	1.25	80
101N09	100	9	72	8	.16	5	600	160	15	1.25	80

DE-275 SERIES

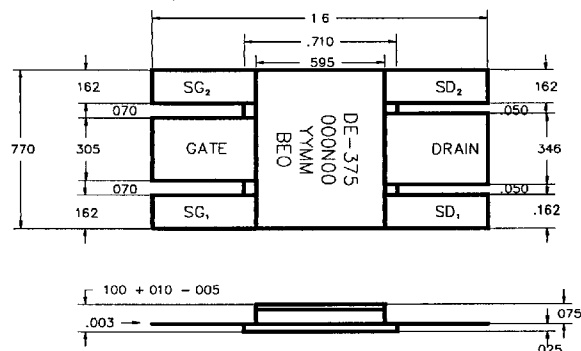


The DE-275 SERIES are the medium power devices in the DE-SERIES family. Their speed and frequency cover the communication and ISM bands. The upper operational frequency of the DE-275 SERIES is approximately 50MHz. The switching speed of the device family is on the order of 4-5ns 10%-90%, with peak currents greater than 200 amperes. Applications include:

- >1000W RF AMPLIFIERS
- >1000W RF GENERATORS
- HIGH CURRENT LASER DIODE DRIVERS
- HIGH VOLTAGE MICRO-CHANNEL PLATE GATING
- HIGH VOLTAGE HIGH POWER PULSE GENERATION

DE-275	V _{DS} (V)	I _D (A)	I _{DM} (A)	g _{fs} (S)	R _{DS(ON)} (Ω)	T _R (ns)	C _{ISS} (pF)	C _{OSS} (pF)	C _{RSS} (pF)	R _{θJHS}	P _D (W)
102N05	1000	5	40	6	2.6	5	2500	75	15	.45	270
501N16	500	16	125	9	.5	5	2500	125	25	.45	270
201N25	200	25	200	18	.08	5	2500	250	50	.45	270
101N30	100	30	240	20	.05	5	2500	500	100	.45	270

DE-375 SERIES



The DE-375 SERIES are the highest power devices in the DE-SERIES family. Their speed and frequency cover the communication and ISM bands. The upper operational frequency of the DE-375 SERIES is approximately 30MHz. The switching speed of the device family is on the order of 6-8ns 10%-90%, with peak currents of almost 300 amperes. Applications include:

- 1KW to 5KW RF AMPLIFIERS
- 1KW to 5KW RF GENERATORS
- 100A to 500A LASER DIODE DRIVERS
- HIGH VOLTAGE HIGH POWER PULSE GENERATION
- HIGH POWER ULTRA-SONIC TRANSDUCER DRIVERS

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Preliminary specifications subject to change without notice.

DE-375	V _{DS} (V)	I _D (A)	I _{DM} (A)	g _{fs} (S)	R _{DS(ON)} (Ω)	T _R (ns)	C _{ISS} (pF)	C _{OSS} (pF)	C _{RSS} (pF)	R _{θJHS}	P _D (W)
102N10	1000	10	80	12	1.2	8	3800	100	25	.35	340
501N21	500	21	125	21	.25	8	3800	160	60	.35	340
301N35	300	35	280	29	.10	8	3800	300	90	.35	340

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